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(54) TABULAR LIGHTING LIGHT SOURCE DEVICE

(57) Abstract:

PURPOSE: To simplify constitution, and to obtain high reliability by burying an LED molded and sealed with a light-transmitting resin to the bottom of a light-transmitting resin block, on the back thereof an optical reflecting substance layer is applied.

CONSTITUTION: A light-transmitting resin block 8, in which one main surface side is formed in a flat surface and the other main surface side takes an arcuate shape and an optical reflecting substance layer 9 is applied onto the arcuate surface to form an optical reflective surface, and an LED10 molded and sealed with a light-transmitting resin 4 are prepared, and the LED10 is buried to the bottom of the block 8. When an LED chip 2 is light-emitted in a light source device having such structure, beams from the chip 2 are radiated into the block 8 from the surface of the resin 4, and reflected by the optical reflective surface 9. The reflected beams advance in the block 8 again, and are radiated to the outside from the flat surface of the block 8. According to the constitution, a light source device can be realized only by fitting the LED10 to the block 8. Since the state in which resins of a different kind having different thermal expansion coefficients are laminated

is not brought, no warpage is generated, thus obtaining high reliability.

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